INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/38939

			<u> </u>		
A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : B29C 45/76					
US CL	: 264/40.1, 410; 425/135, 169, 170, 171	tional electification and IDC			
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED					
					
	cumentation searched (classification system followed I	by classification symbols)			
U.S. : 20	64/40.1, 410; 425/135, 169, 170, 171				
Documentation	on searched other than minimum documentation to the	extent that such documents are included i	n the fields searched		
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Electronic da	ta base consulted during the international search (nam	e of data base and, where practicable, sear	rch terms used)		
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	nnronriate of the relevant nassages	Relevant to claim No.		
X	US 2002/0068106 A1 (KACHNIC et al) 06 June 200		1,3		
. ^	OS 2002/0000100 AT (RACTIFICE et al) 00 June 200	52 (00.00.2002), 1 lg. 5.	1,5		
. A	US 4,806,292 A (DELACY) 21 February 1989 (21.	02.1989), Fig. 1.	1,3		
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A	US 4,871,493 A (GOTO) 03 October 1989 (03.10.1989), column 2, lines 39-53.		1,3		
1					
A	US 4,933,126 A (SHUMAN) 12 June 1990 (12.06.1990), Fig. 2.		1,3		
A	US 5,158,724 A (YAGI et al) 27 October 1992 (27.	10.1992), Fig. 1.	1,3		
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Europa	r documents are listed in the continuation of Box C.	See notest family amore			
		See patent family annex.			
Special categories of cited documents:		"T" later document published after the inte date and not in conflict with the applic			
	t defining the general state of the art which is not considered to be	principle or theory underlying the inve			
of particular relevance		"X" document of particular relevance; the	claimed invention cannot be		
"E" earlier ap	pplication or patent published on or after the international filing date	considered novel or cannot be considered			
"L" documen	t which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone			
establish	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the			
specified)		considered to involve an inventive ster combined with one or more other such			
"O" document	t referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in th			
"P" document published prior to the international filing date but later than the		"&" document member of the same patent	family		
	late claimed	a detailed the tipe of the same patent	·anniy		
Date of the actual completion of the international search		Date of mailing of the international search report			
24 May 2005 (24.05.2005)		13 JUN 2005			
1	ailing address of the ISA/US	Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Robert Davis Junf			
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Box No. II Observations where certain claims were found unsearchable (Continuation	of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: 2 because they relate to subject matter not required to be searched by this Authority, namely. Please See Continuation Sheet	:		
Claims Nos.: because they relate to parts of the international application that do not comply with the pres an extent that no meaningful international search can be carried out, specifically:	scribed requirements to such		
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and the	aird sentences of Rule 6.4(a).		
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of	first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows:	ws:		
 As all required additional search fees were timely paid by the applicant, this international s searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this A payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this covers only those claims for which fees were paid, specifically claims Nos.: 	Authority did not invite		
4. No required additional search fees were timely paid by the applicant. Consequently, this ir restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	aternational search report is		

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

INTERNATIONAL SEARCH REPORT	International application No. PCT/US04/38939
Box II Observations where certain claims were found unsearchable 1. because searched by this Authority, namely: The claim directs to neither a "process" nor a "machine," but rather embraces or of forth in 35 USC 101 which is drafted so as to set forth the statutory classes of inventions.	verlaps two different statutory classes of invention set
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